AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

- 1. (currently amended) A magnetic recording medium
 comprising:
 - a non-magnetic base material; [[and]]
- a ferromagnetic metal layer of a cobalt based alloy formed on top of said non-magnetic base material; [[with]] and
- a metal underlayer disposed <u>between said base material</u> and said ferromagnetic metal layer therebetween, wherein,
 - a coercive force Hc is at least 2000 (Oe), [[and]]
- an anisotropic magnetic field Hk^{grain} is at least $10,000\,(\text{Oe})\,,$ and

said metal underlayer incorporates an underfilm of either one of Cr and a Cr alloy, and said Cr alloy also incorporates Mo and/or W.

2. (original) A magnetic recording medium according to claim 1, wherein said metal underlayer and said ferromagnetic metal layer are formed in a film fabrication chamber with an ultimate vacuum at a 10^{-9} Torr level, using a film fabrication gas with an impurity concentration of no more than 1 ppb.



[3. (canceled)]

- 4. (previously presented) A magnetic recording medium according to claim 1, wherein said metal underlayer incorporates an underfilm of either one of Cr and a Cr alloy, and said Cr alloy incorporates one, or two or more elements selected from a group consisting of V, Nb, Hf, Zr, Ti, Mn, Ta, Ru, Re, Os, Ir, Rh, Pd, Pt, P, B, Si, Ge, N and O.
- 5. (previously presented) A magnetic recording medium according to any one of claim 1, wherein a film thickness of said metal underlayer is within a range from 3 nm to 20 nm.
- 6. (previously presented) A magnetic recording medium according to claim 1, wherein said metal underlayer comprises a layered structure of two or more underfilms with different lattice constants.
- 7. (original) A magnetic recording medium according to claim 6, wherein said metal underlayer is a two layered construction with a second underfilm layered on top of a first underfilm, and a film thickness ratio t_2/t_1 of a film thickness t_1

of said first underfilm and a film thickness t_2 of said second underfilm is within a range from 0.2 to 5.0.

- 8. (original) A magnetic recording medium according to claim 7, wherein a film thickness of said first underfilm is within a range from 1.5 nm to 8.5 nm.
- 9. (previously presented) A magnetic recording medium according to claim 7, wherein a film thickness of said second underfilm is within a range from 1.5 nm to 8.5 nm.
- 10. (previously presented) A magnetic recording medium according to claim 1, wherein a lattice misfit of said metal underlayer and said ferromagnetic metal layer, as determined by an equation (y-x) / $(x/2 + y/2) \cdot 100(\%)$, in which x represents a length obtained by multiplying by $\sqrt{2}$ a lattice constant of said metal underlayer and y represents a c axis length of a crystal lattice of said ferromagnetic metal layer, is a value from 0.5% to 2.5%.
- 11. (original) A magnetic recording medium according to claim 10, wherein said lattice misfit of said metal underlayer and said ferromagnetic metal layer is a value from 0.5% to 1.5%.



12. (previously presented) A magnetic recording medium according to claim 1, wherein in a crystal lattice of said ferromagnetic metal layer of said cobalt based alloy, an interatomic distance a in a direction of a normal line to said ferromagnetic metal layer is larger than an interatomic distance b in a direction within a plane of said ferromagnetic metal layer.

13. (original) A magnetic recording medium according to claim 12, wherein an axial length ratio a/b of said interatomic distance a in a direction of a normal line to said ferromagnetic metal layer relative to said interatomic distance b in a direction within a plane of said ferromagnetic metal layer is within a range from 1.002 to 1.008.

 $\begin{bmatrix} 14-16 \text{ (canceled)} \end{bmatrix}$

17. (previously presented) A magnetic recording device comprising a magnetic recording medium according to claim 1, a drive section for driving said magnetic recording medium, and a magnetic head for carrying out recording and playback of magnetic information, wherein said magnetic head performs recording and playback of magnetic information on a moving said magnetic recording medium.



[18. (canceled)]

19. (currently amended) A magnetic recording medium according to any one of claim 2, wherein said metal underlayer comprises a layered structure of two or more underfilms with different lattice constants.

20. (currently amended) A magnetic recording medium according to claim $\frac{3}{2}$, wherein said metal underlayer comprises a layered structure of two or more underfilm with different lattice constants.

- 21. (new) A magnetic recording medium, comprising:
- a non-magnetic base material;
- a metal underlayer formed on top of said non-magnetic base material and incorporating an underfilm of either one of Cr and a Cr alloy incorporating Mo or W; and
- a ferromagnetic metal layer of a cobalt based alloy formed on top of said non-magnetic base material and said ferromagnetic metal layer so that said metal underlayer disposed between said base material and said ferromagnetic metal layer, wherein,



at a same time, a coercive force Hc is at least 2000 $\,$ (Oe), and an anisotropic magnetic field $Hk^{\rm grain}$ is at least 10,000 $\,$ (Oe).

22. (new) The magnetic recording medium of claim 21, wherein, said underfilm comprises the Cr alloy incorporating Mo.



- 23. (new) The magnetic recording medium of claim 21, wherein, said underfilm comprises the Cr alloy incorporating W.
- 24. (new) The magnetic recording medium of claim 21, wherein, said underfilm comprises the Cr alloy incorporating Mo and W.